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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/660,582	09/12/2003	Yasuji Seko	117159	5272	
27074 75	90 03/30/2005		EXAM	EXAMINER	
OLIFF & BERRIDGE, PLC.			CHISDES, SARAH J		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2877		
			DATE MAILED: 03/30/2003	DATE MAILED: 03/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/660,582	SEKO ET AL.					
Office Action Summary	Examiner	Art Unit					
•	Sarah J. Chisdes	2877					
The MAILING DATE of this communication app							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 14 Ma	arch 2005.						
·	action is non-final.						
·	<u> </u>						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	A parto quayro, 1000 C.D. 11, 40	0 0.0. 210.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) <u>1-17</u> is/are allowed.							
6)⊠ Claim(s) <u>18 and 20</u> is/are rejected.							
7) Claim(s) <u>19</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner							
10)⊠ The drawing(s) filed on <u>01 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Exa							
Priority under 35 U.S.C. § 119							
<u> </u>		(1) (0)					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f):							
a)⊠ All b) Some * c) None of: 1.⊠ Certified copies of the priority documents have been received.							
		Ma					
<ul><li>2. Certified copies of the priority documents</li><li>3. Copies of the certified copies of the priori</li></ul>							
application from the International Bureau		d in this National Stage					
* See the attached detailed Office action for a list of	` ' ''	4					
The man and a detailed a man detail for a list of	commod copico not receive	<del>,</del>					
Attachment(s)		(1)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date  5) Notice of Informal Pa						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date /2/1/63	6) Other:	nent Application (F 10-192)					

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#### **DETAILED ACTION**

## Information Disclosure Statement

The Information Disclosure Statement filed December 1, 2003 has been entered and the reference considered by the examiner.

### **Drawings**

The drawings were received on December 1, 2003. These drawings are approved.

## Specification

The disclosure is objected to because of the following informality: in the first line of the first paragraph in the Description of the Related Art, the term "tree"-dimensional is used. It was understood as "three"-dimensional. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 18 is rejected under 35 U.S.C. 102(b) as being anticipated by Ogawa (5,640,241). The "light source for emitting light" corresponds to the "light spot" (4) in Ogawa, the "detector" corresponds to the "image sensor" (2) in Ogawa, and the "calculator" corresponds to Ogawa's "image processing unit" (3), all in Figure 1. The "optical system having a spherical aberration for forming a concentrated area of the light" corresponds to the "cylindrical lens" (1) in the same figure. The phrase "having a spherical aberration" is understood to describe the optical system, and the optical system is understood to be that which forms the concentrated area of light. The

lens in Ogawa can be construed as an "optical system". All lenses have some inherent aberrations (no real lens is perfect), so the cylindrical lens can be seen as an "optical system having a spherical aberration." Moreover, Ogawa uses the spherical lens as an optical converter to convert the light spot unto a "linear image" (column 2, lines 25-26, and elsewhere), which is a concentrated area of light. Hence the cylindrical lens of Ogawa is an "optical system having a spherical aberration for forming a concentrated area of light".

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogawa. Ogawa describes a system according to claim 18, but does not explicitly show a moveable element wherein the light source is mounted on the moveable element. However, in column 5, lines 4-5 and elsewhere, Ogawa describes the light source as being displaceable. The examiner takes Official Notice of the fact that the provision of a movable mount for the light source such as a optical pen used in the graphic design industry would have been known to those of ordinary skill in the art. It would be obvious to one of ordinary skill in the art to provide a light source which is being positionally tracked with a movable mount so that it may be moved by a user in a secured (i.e. non damaging) and optically unobtrusive manner.

#### Allowable Subject Matter

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Claims 1-17 are allowed.

Claim 19 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record, taken alone or in combination fails to disclose or render obvious an optical system wherein a spherical aberration is used explicitly to produce an area of light concentration (e.g., interference pattern) and the area of light concentration produced by the spherical aberration is used to monitor the position of a light source as claimed in claims 1 and 11; and a diffusion member placed between a optical system and a detector as claimed in claim 19.

Regarding claim 18, if the claim were to be amended to read an "optical system having a spherical aberration, wherein the spherical aberration forms a concentrated area of light", it may be allowable.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Falk et al. (4,627,722) discloses a similar method of monitoring the three-dimensional position of a light source, but uses a different means (i.e., interferometer) to produce the area of light concentration

Several facts have been relied upon from the personal knowledge of the examiner about which the examiner took Official Notice. Applicant must seasonably challenge well known

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statements and statements based on personal knowledge when they are made by the Board of Patent Appeals and Interferences. In re Selmi, 156 F.2d 96, 70 USPQ 197 (CCPA 1946); In re Fischer, 125 F.2d 725, 52 USPQ 473 (CCPA 1942). See also In re Boon, 439 F.2d 724, 169 USPQ 231 (CCPA 1971) (a challenge to the taking of judicial notice must contain adequate information or argument to create on its face a reasonable doubt regarding the circumstances justifying the judicial notice). If applicant does not seasonably traverse the well-known statement during examination, then the object of the well-known statement is taken to be admitted prior art. In re Chevenard, 139 F.2d 71, 60 USPQ 239 (CCPA 1943). A seasonable challenge constitutes a demand for evidence made as soon as practicable during prosecution. Thus, applicant is charged with rebutting the well-known statement in the next reply after the Office action in which the well-known statement was made.

## Fax/Telephone Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah J. Chisdes whose telephone number is 571-272-8450. The examiner can normally be reached on Monday through Thursday 9-6:30, Friday 9-5:30, with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley Jr. can be reached on 571-272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sarah J. Chisdes, Ph.D.

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Examiner

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March 23, 2005